**Title:**

The usefulness of Platelet Function Analysis (PFA) test to screen for occult platelet dysfunction in neurosurgery.

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**Abstract:**

***Objective*:**

To study the usefulness of Platelet Function Analysis (PFA) test to screen for occult platelet dysfunction in neurosurgical patients.

***Method:***

During the period 2014-2018, 93 patients underwent PFA test to screen for occult platelet dysfunction before their elective neurosurgical operation. When screening PFA showed a prolonged bleeding time, patient would be interviewed again for detailed drug history and bleeding history, and a repeat PFA test would be carried out. If repeat PFA test showed persistent prolonged bleeding time, a Von Willebrand panel test would be carried out, followed by a DDAVP challenge test. We examined the incidence of abnormal test results and their causes.

***Result:***

14% of patients showed prolonged bleeding time in the first screening test. 5% of all patients had persistent prolonged bleeding time on repeat PFA test. 2% of all patients turned out that they had taken antiplatet medication without revealing the drug history in the initial interview. 3% of the screened patients suffered from Von Willebrand Disease. All of them subsequently underwent surgery with either DDAVP or VW-VIII cover without bleeding complication. There were no major haemorrhagic complication developed after surgery in this small series of patient.

***Conclusion:***

We believe that PFA is a useful screening test and potentially able to help avoid bleeding complication in neurosurgery.